

Forces

A **force** is a push or pull, exerted by one object on another.

Types of forces

- **Upthrust** : the force that makes some things float
- **Tension** : the force in a stretched object
- **Friction** : the force that opposes motion of an object sliding past one another
- **Thrust** : the forward force on an engine
- **Weight** : the gravitational force acting on an object

Newton's Laws of Motion

1. An object will continue its state of motion (rest or moving) unless an external force acts upon it.
2. The force acting on an object is equal to its mass times its acceleration ($F = ma$)
3. For every action there is an equal but opposite reaction.

The SI unit of force is **Newton (N)**. A 1 N force on a object has a mass of 1 kilogram and accelerating at 1 metre per second per second.

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